

FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS

PRESS RELEASE

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Fraunhofer IIS Debuts Cingo 3D Sound for Mobile at CES 2015

Visitors can experience a new level of virtual reality with the rendering of immersive 3D sound by Fraunhofer's Cingo mobile audio suite on Samsung Gear VR.

Erlangen, Germany/Las Vegas, USA, January 5, 2015 – CES, South Hall 1, 20418 – Fraunhofer IIS will demonstrate the new 3D sound capabilities of Cingo with the Samsung Gear VR head mounted display for the first time at CES. The latest advancements to Cingo add a height dimension to the sound, allowing listeners to perceive elements from in front, behind, above or below creating a truly immersive sound experience.

“We are thrilled to showcase Cingo’s new level of reality as it now supports rendering of 3D audio content alongside the unmatched surround sound experience,” said Harald Popp, head of the Business department of the Audio & Multimedia division of Fraunhofer IIS. “Our partnership with Samsung in the virtual reality domain enables an audio experience that adds another layer of realism to Gear VR, one of the most innovative entertainment products.”

Developed by the world renowned experts in audio and multimedia technologies at Fraunhofer IIS, Cingo dramatically improves the consumer experience by achieving significantly enhanced playback of stereo and surround sound on mobile devices. Furthermore, Cingo delivers natural and clear sound even in the noisiest environments.

Cingo is available from Fraunhofer as a product-ready software implementation for mobile device manufacturers, chip set vendors and providers of multimedia services. It has been deployed in all Google Nexus phones and tablets as well as many video service provider apps.

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Show attendees can experience Cingo 3D at the Fraunhofer booth at CES 2015 (South Hall 1, booth 20418)

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About Cingo

Fraunhofer Cingo creates a realistic immersive sound impression when listening to surround or 3D content over stereo speakers or headphones. Based on the latest developments in audio technology, Fraunhofer Cingo contains a complete set of tools to deliver an exceptional level of audio quality, unmatched on mobile devices.

With the virtual sound mode each audio channel is presented as a virtual sound source in such a way that it is heard from a specific location and distance, for example a loudspeaker of a 5.1 or 11.1 speaker setup in a living room. This enables the playback of stereo, surround or 3D sound over the built-in speakers or any type of headphones.

The loudness optimization feature of Cingo delivers a natural and clear sound even in the most challenging situations. Together with the equalizing algorithm, which compensates for the common audio quality deficiencies often encountered with smartphones and tablets, Fraunhofer Cingo ensures significantly improved audio quality in any listening situation.

About Fraunhofer

When it comes to innovative audio technologies for the rapidly evolving media world, Fraunhofer IIS stands alone. For more than 25 years, digital audio technology has been the principal focus of the Audio and Multimedia division of the Fraunhofer Institute for Integrated Circuits IIS. From the creation of mp3 and the co-development of the AAC to the future of audio entertainment for broadcast, Fraunhofer IIS brings innovations in sound to reality.

Today, technologies such as Fraunhofer Cingo for virtual surround sound, Fraunhofer Symphoria for automotive 3D audio, AAC-ELD for telephone calls with CD-like audio quality, and Dialogue Enhancement that allows television viewers to adjust dialogue volume to suit their personal preferences are among the division's most compelling new developments.

Fraunhofer IIS technologies enable more than 7 billion devices worldwide. The audio codec software and application-specific customizations are licensed to more than 1,000 companies. The division's mp3 and AAC audio codecs are now ubiquitous in mobile multimedia systems.

Fraunhofer IIS is based in Erlangen, Germany and is a division of Fraunhofer-Gesellschaft. With more than 23,000 employees worldwide, Fraunhofer-Gesellschaft is comprised of 67 institutes and research units making it Europe's largest application-oriented research organization.

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